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- **Saito, Hiroshi**
Aichi-ken (JP)
- **Nakayama, Shuichi**
Aichi-ken (JP)
- **Shimoyama, Kunimitsu**
Aichi-ken (JP)

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(71) Applicant: **Mitsubishi Heavy Industries, Ltd.**
Tokyo 108-8215 (JP)

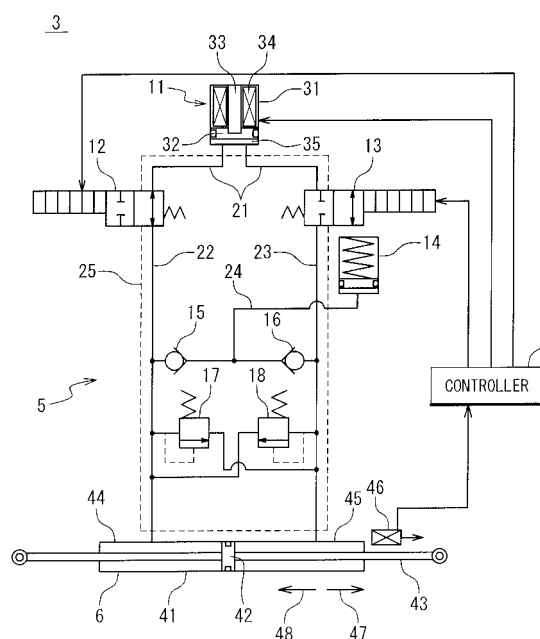
(74) Representative: **Henkel, Breuer & Partner**
Patentanwälte
Maximiliansplatz 21
80333 München (DE)

(72) Inventors:
• **Mori, Shigeyuki**
Aichi-ken (JP)

(54) **Actuation system, helicopter using the same, and controlling method therefor**

(57) In an aspect of the present invention, an actuation system includes: a pump assembly (11) configured to form a pump chamber; an actuator (6) having first and second chambers and a movable member (42) and configured to convert pressures applied to the first and second chambers into a movement of the movable member; and a valve section (12;13). A controller (7) controls the valve section to open a first flow path between the pump chamber and the first chamber and close a second flow path between the pump chamber with the second chamber, during a discharge period during which the pump chamber is pressurized, in a first mode; to close the first flow path and open the second flow path during an intake period during which the pump chamber is depressurized, in the first mode; to close the first flow path and open the second flow path during the discharge period in a second mode; and to open the first flow path and close the second flow path during the intake period in the second mode.

Fig. 5





EUROPEAN SEARCH REPORT

Application Number
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	* page 5, line 8 - page 10, line 22; figure 1 *		
The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 16 October 2012	Examiner Busto, Mario
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			

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**ANNEX TO THE EUROPEAN SEARCH REPORT
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